[7] ✓ 0s

```
Student={'name':'prani','age':20
print(Student)
```

```
{'name': 'prani', 'age': 20, '
```

[8] ✓ 0s

```
Pi=3.14
r=5
area=3.14*r*r
print("area of circle:",area)
```

```
area of circle: 78.5
```

[12] ✓ 0s

```
print(25>10 and 35>10)
```

```
True
```

[13] ✓ 0s

```
print(not 25<10)
```

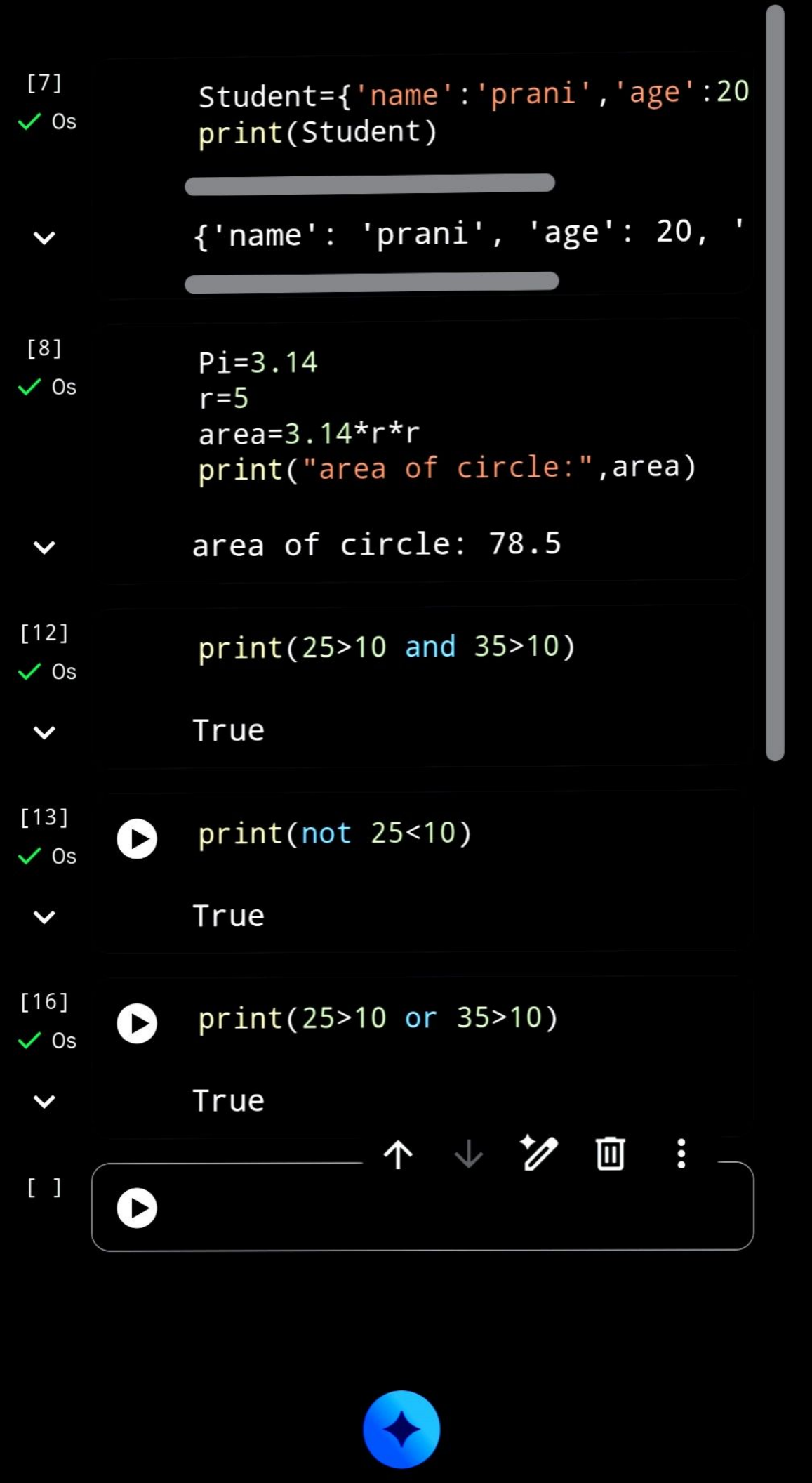
```
True
```

[16] ✓ 0s

```
print(25>10 or 35>10)
```

```
True
```

[ ]



Untitled2.ipynb

RAM
Disk

[13]
0s

```
print(not 25<10)
```

```
True
```

[16]
0s

```
print(25>10 or 35>10)
```

```
True
```

[20]
0s

```
Principal=50
Time=5
Rate=2
SI=Principal*Time*Rate/100
print("simple interest:",SI)
```

```
simple interest: 5.0
```

[20]
✓ 0s

```
Principal=50
Time=5
Rate=2
SI=Principal*Time*Rate/100
print("simple interest:",SI)
```

```
simple interest: 5.0
```

[25]
✓ 0s

```
Sub1=10
Sub2=5
Sub3=4
Sub4=15
Avg=Sub1+Sub2+Sub3+Sub4/4
print("Average of subjects:",Avg)
```

```
Average of subjects: 22.75
```

[26]
✓ 0s

```
Sub1=10
Sub2=5
Sub3=4
Sub4=15
Avg=(Sub1+Sub2+Sub3+Sub4)/4
print("Average of subjects:",Avg)
```

```
Average of subjects: 8.5
```

[27]
✓ 0s

```
base=4
exponent=2
Power=base**exponent
print("result:",Power)
```

```
result: 16
```

[26] ✓ 0s

```
Sub3=4
Sub4=15
Avg=(Sub1+Sub2+Sub3+Sub4)/4
print("Average of subjects:",Avg)
```

```
Average of subjects: 8.5
```

[27] ✓ 0s

```
base=4
exponent=2
Power=base**exponent
print("result:",Power)
```

```
result: 16
```

[28] ✓ 0s

```
a=10
b=2
exp=a**b
print("a power b is:", exp)
```

```
a power b is: 100
```

```
result: 16
```

[28]
✓ 0s

```
a=10
b=2
exp=a**b
print("a power b is:", exp)
```

```
a power b is: 100
```

[33]
✓ 0s

```
bill=400
Units=5
Unitsprice=40
Totalbill=(bill*Units*Unitsprice)
print("electricalbil:",Totalbill)
```

```
electricalbil: 80000
```

```
Totalbill=(bill*Units*Unitsprice)
print("electricalbil:",Totalbill)
```

```
electricalbil: 80000
```

[35]
✓ 0s

```
a=8
print(a>0)
```

```
True
```

[ ]

```
|
```

1 2 3 4 5 6 7 8 9 0

Q W E R T Y U I O P

A S D F G H J K L

Z X C V B N M

?123 , .

[33]
✓ 0s

```
Units=5
Unitsprice=40
Totalbill=(bill*Units*Unitsprice)
print("electricalbil:",Totalbill)
```

```
electricalbil: 80000
```

[35]
✓ 0s

```
a=8
print(a>0)
```

```
True
```

[44]
✓ 0s

```
a=10

print("Given number lies between
```

```
Given number lies between 10 a
```

[33]
✓ 0s

```
Units=5
Unitsprice=40
Totalbill=(bill*Units*Unitsprice)
print("electricalbil:",Totalbill)
```

```
electricalbil: 80000
```

[35]
✓ 0s

```
a=8
print(a>0)
```

```
True
```

[44]
✓ 0s

```
etween 10 and 20:",a>10 and b<20)
```

```
... r lies between 10 and 20: False
```

[44]
✓ 0s

```
etween 10 and 20:",a>10 and b<20)
```

```
r lies between 10 and 20: False
```

[50]
✓ 0s

```
that number is even number",a>10)
```

```
that number is even number True
```

[51]
✓ 0s

```
n=3568
print((n%10) % 2== 0)
```

Run cell (Ctrl+Enter)
cell executed since last change

```
True
```

executed by Pranitha Karumuru
12:45 PM (0 minutes ago)
executed in 0.046s

[1]
✓ 0s

```
a=10
b=5
print(a+b)
print(a-b)
print(a*b)
print(a/b)
print(a%b)
print(a**b)
```

```
15
5
50
2.0
0
100000
```

[1]
0s

```
a=10
b=5
print(a+b)
print(a-b)
print(a*b)
print(a/b)
print(a%b)
print(a**b)
```

```
15
5
50
2.0
0
100000
```

[6]
0s

```
a=10
b=5
print(a>b and a<b)
print(a>b and a>b)
print(a<b and a<b)
print(a<b and a>b)
```

```
False
True
False
False
```

[6]
✓ 9s

```
marks = int(input("Enter marks ((

if marks < 0 or marks > 100:
    print("Invalid marks")
elif marks >= 90:
    print("Grade: A")
elif marks >= 75:
    print("Grade: B")
elif marks >= 60:
    print("Grade: C")
elif marks >= 40:
    print("Grade: D")
else:
    print("Fail")
```

```
Enter marks (0-100): 75
Grade: B
```

[31]
✓ 39s

```
a = int(input("Enter first side:
b = int(input("Enter second side
c = int(input("Enter third side:

# Check for valid triangle
if a <= 0 or b <= 0 or c <= 0 or
    print("Invalid triangle")
elif a == b == c:
    print("Equilateral triangle"
elif a == b or b == c or a == c:
    print("Isosceles triangle")
else:
    print("Scalene triangle")
```

```
Enter first side: 5
Enter second side: 5
Enter third side: 5
Equilateral triangle
```

[36]
✓ 16s

```
a = int(input("Enter first side:
b = int(input("Enter second side
c = int(input("Enter third side:

# Check for valid triangle
if a <= 0 or b <= 0 or c <= 0 or
    print("Invalid triangle")
elif a == b == c:
    print("Equilateral triangle"
elif a == b or b == c or a == c:
    print("Isosceles triangle")
else:
    print("Scalene triangle")
```

```
Enter first side: 10
Enter second side: 10
Enter third side: 5
Isosceles triangle
```

[1]
✓ 49s

```
salary = float(input("Enter sala
experience = int(input("Enter ye

if salary < 20000 and experience
    bonus = salary * 0.10
    print("Bonus:", bonus)
elif salary >= 20000 and experie
    bonus = salary * 0.20
    print("Bonus:", bonus)
else:
    print("No bonus")
```

```
Enter salary: 20000
Enter years of experience: 5
Bonus: 4000.0
```

Bonus: 4000.0

[4]
18s

```
a = int(input("Enter first side:
b = int(input("Enter second side
c = int(input("Enter third side:

# Check for valid triangle
if a <= 0 or b <= 0 or c <= 0 or
    print("Invalid triangle")
elif a == b == c:
    print("Equilateral triangle"
elif a == b or b == c or a == c:
    print("Isosceles triangle")
else:
    print("Scalene triangle")
```

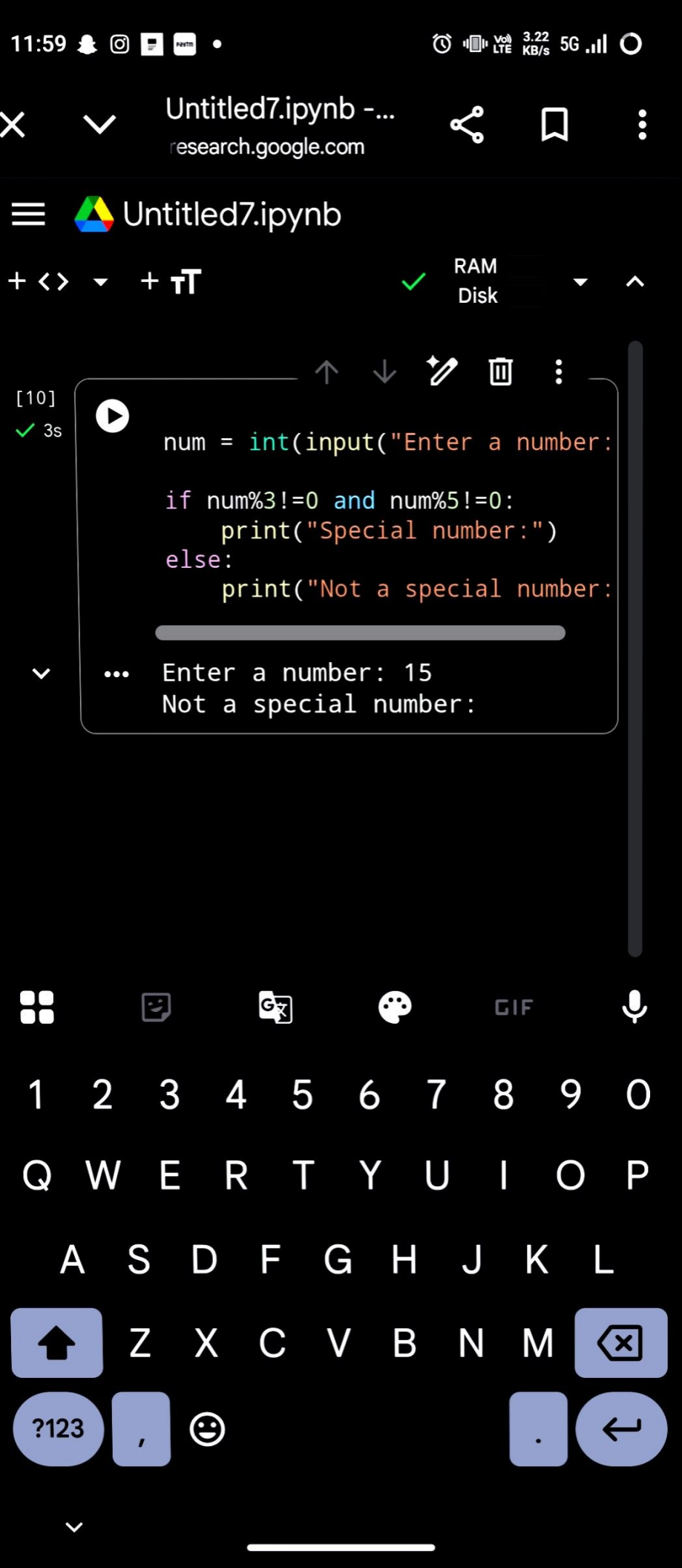
```
Enter first side: 3
Enter second side: 4
Enter third side: 5
Scalene triangle
```

[8]
✓ 8s

```
num = int(input("Enter a number:

if num % 3 == 0 and num % 5 != 0
    print("Special number")
else:
    print("Not a special number"
```

```
Enter a number: 18
Special number
```


11:59
Untitled7.ipynb -...
research.google.com
Untitled7.ipynb
RAM
Disk
[10]
3s
num = int(input("Enter a number:
if num%3!=0 and num%5!=0:
print("Special number:")
else:
print("Not a special number:
Enter a number: 15
Not a special number:

[19]

✓ 3s

```
hour = int(input("Enter hour (0-

if hour<0 and hour>23:
    print("Invalid hour")
elif hour>=5 and hour<=11:
    print("Good Morning")
elif hour>=12 and hour<=16:
    print("Good Afternoon")
elif hour>=17 and hour<=20:
    print("Good Evening")
else:
    print("Good Night")
```

```
Enter hour (0-23): 14
Good Afternoon
```

[20]
✓ 4s

```
hour = int(input("Enter hour (0-

if hour<0 and hour>23:
    print("Invalid hour")
elif hour>=5 and hour<=11:
    print("Good Morning")
elif hour>=12 and hour<=16:
    print("Good Afternoon")
elif hour>=17 and hour<=20:
    print("Good Evening")
else:
    print("Good Night")
```

```
Enter hour (0-23): 0
Good Night
```

[21]
✓ 42s

```
a = int(input("Enter first numbe
b = int(input("Enter second numb
c = int(input("Enter third numbe

if (a > b and a < c) or (a < b a
    print("Middle number is:", a
elif (b > a and b < c) or (b < a
    print("Middle number is:", b
else:
    print("Middle number is:", c
```

```
Enter first number: 10
Enter second number: 5
Enter third number: 8
Middle number is: 8
```

[3]
✓ 0s

```
age = 18

if age >= 18:
    print("Eligible to vote")
else:
    print("Not eligible to vote")
```

```
Eligible to vote
```

[4]
✓ 0s

```
for i in range(3):
    print("Hello")
```

```
Hello
Hello
Hello
```

[1]
✓ 0s

```
i=1
print(i)
```

```
1
```

[12]
✓ 0s

```
i = 1
n = 10
while i<=n:
    i += 1
    print(i)
```

```
2
3
4
5
6
7
8
9
10
11
```

Show/hide output

[13]
✓ 0s

```
num = 2

while num <= 10:
    if num % 2 == 0:
        print(num)
    num += 1
```

```
2
4
6
8
10
```

[1]
✓ 0s

```
i=1
print(i)
```

```
1
```

[12]
✓ 0s

```
i = 1
n = 10
while i<=n:
    i += 1
    print(i)
```

```
2
3
4
5
6
7
8
9
10
11
```

[15]
✓ 0s

```
i = 2

while i <= 10:
    if i % 2 == 0:
        print(i)
    i += 1
```

```
2
4
6
8
10
```

[26]

✓ 0s

```
i = 1
n = 10
sum = 0
while i<=n:
    sum+=i
    i+=1
    print(sum)
```

```
1
3
6
10
15
21
28
36
45
55
```

[27]
0s

```
i = 1
n = 10
sum = 0
while i<=n:
    sum+=i
    i+=1
print(sum)
```

```
55
```

```
45
55
```

[30]
✓ 0s

```
for i in range(5,10):
    print(i)
```

```
5
6
7
8
9
```

[30]
✓ 0s

```
for i in range(5,10):
    print(i)
```

```
5
6
7
8
9
```

[35]
✓ 0s

```
for i in range(1,11):
    print(i)
```

```
1
2
3
4
5
6
7
8
9
10
```

3

[26]
Os

```
n = 3456
count = 0
while n > 0:
  count = count + 1
  n = n // 10
print(count)
```

4

Untitled12.ipynb ...

research.google.com

4321

```
n = 356
sum = 0
while n > 0:
    sum += n % 10
    n = n // 10
print(sum)
```

14

Disk

```
n = 1234
rev = 0
while n>0:
    digit = n % 10
    rev = rev * 10 + digit
    n //= 10
print(rev)
```

```
4321
```

lab paid products ncel contracts here

[8]
5s

```
# Program to add two numbers

a = int(input("Enter first numbe
b = int(input("Enter second numb

sum = a + b

print("Sum =", sum)
```

```
Enter first number: 4
Enter second number: 5
Sum = 9
```

[10]
✓ 2s

```
# Program to check even or odd

num = int(input("Enter a number:

if num % 2 == 0:
    print("Even number")
else:
    print("Odd number")
```

```
Enter a number: 7
Odd number
```

[14]
✓ 0s

```
a = 5
b = 4

sum = a + b

print("Sum =", sum)
```

```
Sum = 9
```

[15]
✓ 0s

```
num = 7
if num % 2 == 0:
    print("Even number")
else:
    print("Odd number")
```

```
Odd number
```

```
print(
```

```
Odd number
```

[18]

```
a = 9
square = a * a
print("Square of the number is:"
```

```
Square of the number is: 81
```

Untitled13.ipynb

RAM
Disk

[18] ✓ 0s

```
print("Square of the number is:"
```

```
Square of the number is: 81
```

[27] ✓ 16s

```
name = input("Enter student name
roll_no = input("Enter roll numb
course = input("Enter course: ")

print("\nStudent Details")
print("Name   :", name)
print("Roll No:", roll_no)
print("Course :", course)
```

```
Enter student name: Pranitha
Enter roll number:19876
Enter course: BSC

Student Details
Name   : Pranitha
Roll No: 19876
Course : BSC
```

```
Name    : Pranitha
Roll No: 19876
Course : BSC
```

[28]
✓ 0s

```
def calculate(a,b):
    return a+b, a-b
X,Y =calculate(10,5)
print(X,Y)
```

```
15 5
```

Colab paid products  ncel contracts here

```
Name    : Pranitha
Roll No: 19876
Course : BSC
```

[28] ✓ 0s

```
def calculate(a,b):
    return a+b, a-b
X,Y =calculate(10,5)
print(X,Y)
```

```
15 5
```

[29] ✓ 0s

```
def factorial(n):
    if n == 0:
        return 1
    else:
        return n * factorial(n
print(factorial(4))
```

```
24
```

[29]
0s

```
print(factorial(4))
```

```
24
```

[30]
0s

```
X = 20
def display():
    print(X)
display()
```

```
20
```

[30]
✓ 0s

```
X = 20
def display():
    print(X)
display()
```

```
20
```

[32]
✓ 0s

```
X = 10
def show():
    print(X)
show()
```

```
10
```

[9]
✓ 0s

```
K="Pranitha"
for char in K:
    print(char)
```

```
P
r
a
n
i
t
h
a
```

```
P
r
a
n
i
t
h
a
```

[11]
✓ 0s

```
K="Pranitha"
for char in K:
    print(char,end="")
```

```
Pranitha
```

[9] ✓ 0s

```
K="Pranitha"
for char in K:
    print(char)
```

```
P
r
a
n
i
t
h
a
```

[11] ✓ 0s

```
K="Pranitha"
for char in K:
    print(char,end="")
```

```
Pranitha
```

[13] ✓ 0s

```
K = "Pranitha"
for char in K:
    print(char,end=" ")
```

```
P r a n i t h a
```

Code cell output actions

[2]
✓ 10s

```
age = int(input("Enter age:"))
is3D = int(input("Is 3D? (1=yes,

if age < 13:
    price = 150
else:
    if age <= 59:
        price = 250
    else:
        price = 200

if is3D == 1:
    price = price + 50

print(price)
```

```
Enter age:18
Is 3D? (1=yes, 0=no):1
300
```

[5]
✓ 6s

```
attendance = int(input("Enter at
medical = int(input("Has medical

allowed = (attendance >= 75) or

if allowed:
    print("Allowed")
else:
    print("Not Allowed")
```

```
Enter attendance percentage:66
Has medical certificate? (1=ye
Allowed
```

Allowed

[7]
14s

```
bill = float(input("Enter bill a
isPrime = int(input("Is prime me

discount = 0

if bill >= 5000:
    discount = 20
elif bill >= 2000:
    discount = 10

if isPrime == 1:
    discount += 5

final_amount = bill - (bill * di
print("Final amount to be paid:"
```

```
Enter bill amount: 235678
Is prime member? (1=yes, 0=no)
Final amount to be paid: 18854
```

```
[8]
✓ 32s
battery = int(input("Enter batte
isCharging = int(input("Is charg

if isCharging == 1:
    print("Charging")
else:
    if battery <= 20:
        print("Low Battery")
    elif battery <= 80:
        print("Normal")
    else:
        print("Full")
```

```
Enter battery percentage:80
Is charging? (1=yes,0=no):0
Normal
```

[9]
✓ 10s

```
age = int(input("Enter age:"))
testPassed = int(input("Passed d

eligible = (age >= 60) or (age >

if eligible:
    print("Eligible")
else:
    print("Not Eligible")
```

```
Enter age:20
Passed driving test? (1=yes,0=
Not Eligible
```

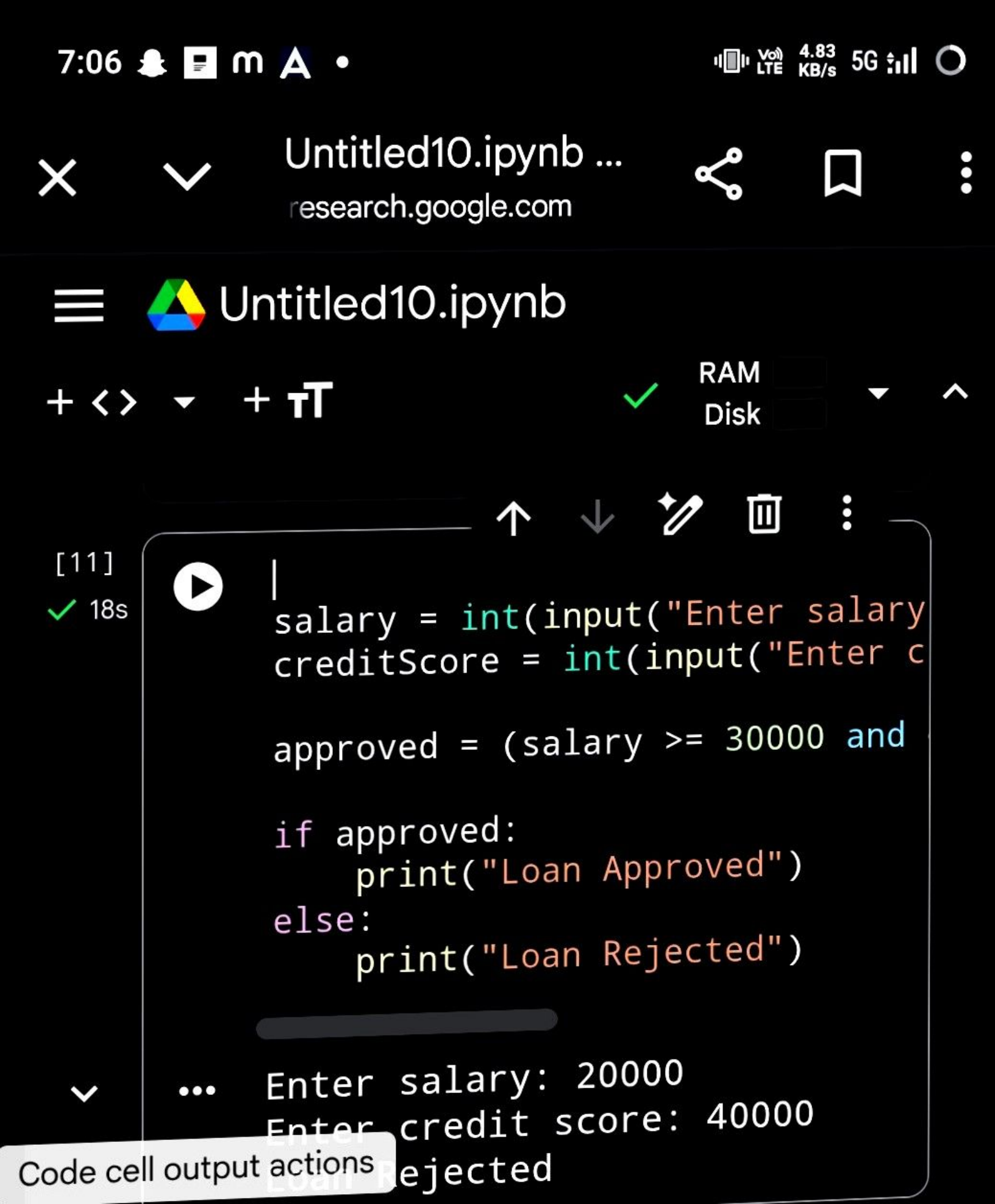
[10]

```
amount = float(input("Enter orde
isGold = int(input("Is gold memb
distance = float(input("Enter di

free = (distance <= 10) and (amo

if free:
    print("Free Delivery")
else:
    print("Delivery Charges Appl
```

```
18
0
22
Delivery Charges Apply
```


7:06
4.83 KB/s
5G
Untitled10.ipynb ...
research.google.com
Untitled10.ipynb
RAM
Disk
[11]
18s
salary = int(input("Enter salary
creditScore = int(input("Enter c
approved = (salary >= 30000 and
if approved:
print("Loan Approved")
else:
print("Loan Rejected")
Enter salary: 20000
Enter credit score: 40000
Code cell output actions

[5]
19s

```
isWeekend = int(input("Is it
daysStayed = int(input("Ente

price_per_day = 4000 if isWe
total_bill = price_per_day *

if daysStayed > 3:
    total_bill = total_bill

print(f"Final bill: ₹{total_
```

```
Is it a weekend? (1 for Ye
Enter number of days staye
Final bill: ₹20400.0
```

What can I help you build?

Gemini 2.5 Flash

[4]
✓ 14s

```
theory = float(input("Enter
practical = float(input("Ent

if (theory >= 40 and practic
    print("Result: Pass")
else:
    print("Result: Fail")
```

```
Enter theory marks: 60
Enter practical marks: 20
Result: Fail
```

What can I help you build?

+ Gemini 2.5 Flash

[14]
✓ 29s

```
dataUsed = float(input("Data
hasUnlimitedPlan = int(input
isRoaming = int(input("Roami

if isRoaming == 1:
    print("Limited Data")
elif dataUsed <= 2 or hasUnl
    print("Unlimited Data")
else:
    print("Limited Data")
```

```
Data used (GB): 2
Unlimited plan (1/0): 1
Roaming (1/0): 0
Unlimited Data
```

What can I help you build?

Gemini 2.5 Flash

[15]
✓ 43s

```
idValid = int(input("ID Vali
fingerprint = int(input("Fin
faceScan = int(input("Face s
isHoliday = int(input("Holid

if isHoliday == 1:
    print("Entry Denied")
elif idValid == 1 and (finge
    print("Entry Allowed")
else:
    print("Entry Denied")
```

```
ID Valid (1/0): 1
Fingerprint (1/0): 0
Face scan (1/0): 1
Holiday (1/0): 0
Entry Allowed
```

What can I help you build?

+ Gemini 2.5 Flash

[6]
✓ 1m

```
score = int(input("Enter sco
isPremium = int(input("Has p
usedCheat = int(input("Used

if usedCheat == 1:
    print("Access Denied")
elif score >= 100 or isPremi
    print("Level Unlocked")
else:
    print("Level Locked")
```

```
Enter score: 80
Has premium pass? (1 for Y
Used cheating? (1 for Yes,
Level Unlocked
```

What can I help you build?

+ Gemini 2.5 Flash

[3]
✓ 32s

```
marks = float(input("Enter m
income = float(input("Enter
singleParent = int(input("Is

if marks >= 85 and (income <
    print("Scholarship Grant
else:
    print("Scholarship Denie
```

```
Enter marks: 40
Enter family income: 15000
Is single parent child? (1
Scholarship Denied
```

What can I help you build?

+ Gemini 2.5 Flash

[2]
✓ 5s

```
units = int(input("Enter uni
bill = 0

if units <= 100:
    bill = units * 2
elif units <= 200:
    bill = (100 * 2) + (unit
else:
    bill = (100 * 2) + (100

print(f"Total bill amount: ₹
```

```
Enter units consumed: 200
Total bill amount: ₹500
```

What can I help you build?

Gemini 2.5 Flash

[16]
✓ 22s

```
averag                                    .t(
isEditorsChoice = int(input(

if isEditorsChoice == 1:
    print("Recommended")
elif averageRating >= 8.5:
    print("Excellent")
elif averageRating >= 6.0:
    print("Good")
else:
    print("Average")
```

```
Average Rating: 28
Editors Choice (1/0): 0
Excellent
```

What can I help you build?

Gemini 2.5 Flash